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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,688	03/01/2002	Quock Ying Ng	STL10351	4885
7:	590 07/01/2003		*	
Shawn B Dempster, Seagate Technology LLC Intellectual Property - SHK2LG 1280 Disc Drive			EXAMINER	
			DAVIS, DAVID DONALD	
Shakopee, MN	55378-1863		ART UNIT	PAPER NUMBER
			2652	2
			DATE MAII ED: 07/01/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

(J)

,		Application No.	Applicant(s)	T y			
Office Action Summary		10/087,688	NG ET AL.				
		Examiner	Art Unit				
		David D. Davis	2652				
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the	correspondence address				
A SHO THE N - Exten after: - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, apply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed /s will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
1)	Responsive to communication(s) filed on						
-)□ 2a)□		— · is action is non-final.					
3)□	Since this application is in condition for allowa		rosecution as to the merits is	•			
•	closed in accordance with the practice under a on of Claims						
4)🖂	Claim(s) 1-16 is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-16</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or on Papers	r election requirement.	·				
9)⊠ ٦	The specification is objected to by the Examine	ſ.					
10)□ 1	The drawing(s) filed on is/are: a)☐ accep	oted or b)⊡ objected to by the Exa	miner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)□ T	he proposed drawing correction filed on	is: a)☐ approved b)☐ disappro	oved by the Examiner.				
	If approved, corrected drawings are required in rep	bly to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.							
Priority u	nder 35 U.S.C. §§ 119 and 120	ı	•				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	<ol> <li>Copies of the certified copies of the prior application from the International Bure ee the attached detailed Office action for a list</li> </ol>	reau (PCT Rule 17.2(a)).	_				
14)⊠ A	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(	e) (to a provisional applicatio	n).			
	☐ The translation of the foreign language procknowledgment is made of a claim for domesti						
Attachment							
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Informal	/ (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Tra	adamade Office						

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#### **DETAILED ACTION**

### Information Disclosure Statement

1. Receipt is acknowledged of the Information Disclosure Statement (IDS) received March 1, 2002.

## Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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5. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Albrecht et al (US 6,160,686) in view of Boutaghou et al (US 6,122,130). Albrecht et al shows a ramp 32 that includes at least one ramp surface for releasable engagement with a tab 34 characterized by a tab hardness. In column 7, lines 37-48 of Albrecht et al disclose a body molded from a compound formulation consisting essentially of a polymer and embedded particles away from the ramp surface considered to have the same hardness as the tab hardness.. The polymer of Albrecht et al is characterized by a polymer surface tension.

Albrecht et al, however, is silent as to the ramp including a liquid that is chemically incompatible with the polymer with the liquid being in the form of droplets that are distributed in the polymer.

Boutaghou et al shows in figure 3 a ramp including a liquid that is chemically incompatible with the polymer with the liquid being in the form of droplets that are distributed in the polymer.

The liquid of Boutaghou is characterized by a liquid surface tension that is lower than the polymer surface tension. The liquid of Boutaghou et al is further characterized by a viscosity that facilitates travel of the droplets in the polymer. Irregularities are formed by the droplets of Boutaghou et al traveling to the ramp surface.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide the ramp of Albrecht et al with a liquid that is chemically incompatible with the polymer with the liquid being in the form of droplets that are distributed in the polymer as taught by Boutaghou et al. The rationale is as follows: one of ordinary skill in the art at the time the invention was made would have been motivated to provide a ramp with a

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liquid that is chemically incompatible with the polymer with the liquid being in the form of droplets that are distributed in the polymer so as to produce a effective and optimized coefficient of friction.

#### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David D. Davis whose telephone number is (703) 308-1503. The examiner can normally be reached on Mon., Tues., Thurs. and Fri. between 7:30-6:00. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900. Any other inquiry should be directed to the customer service center whose telephone number is (703) 306-0377.

Primary Examiner
Art Unit 2652

ddd June 16, 2003